FIG. 1(PRIOR ART)

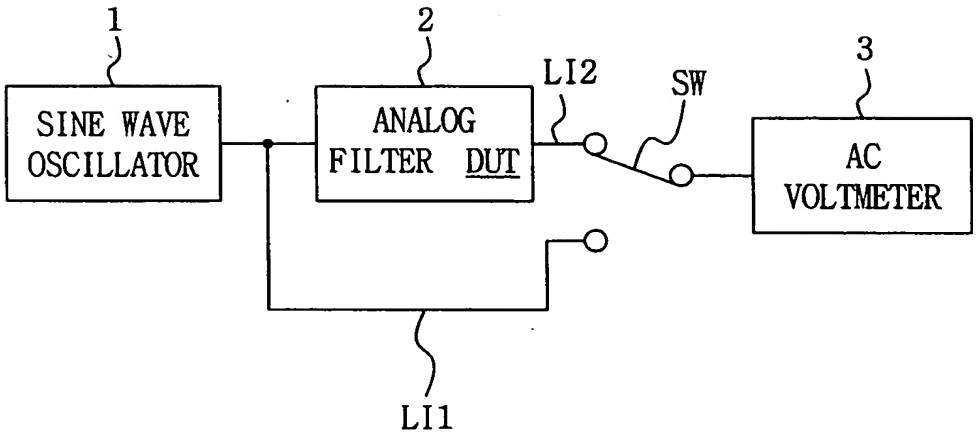


FIG. 3

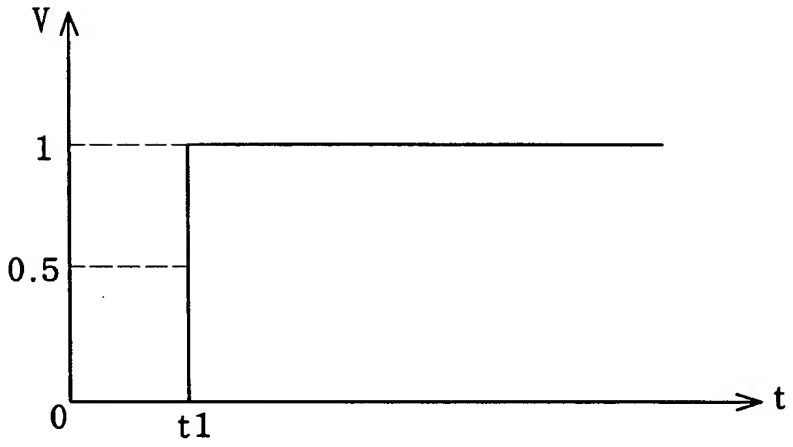


FIG. 2

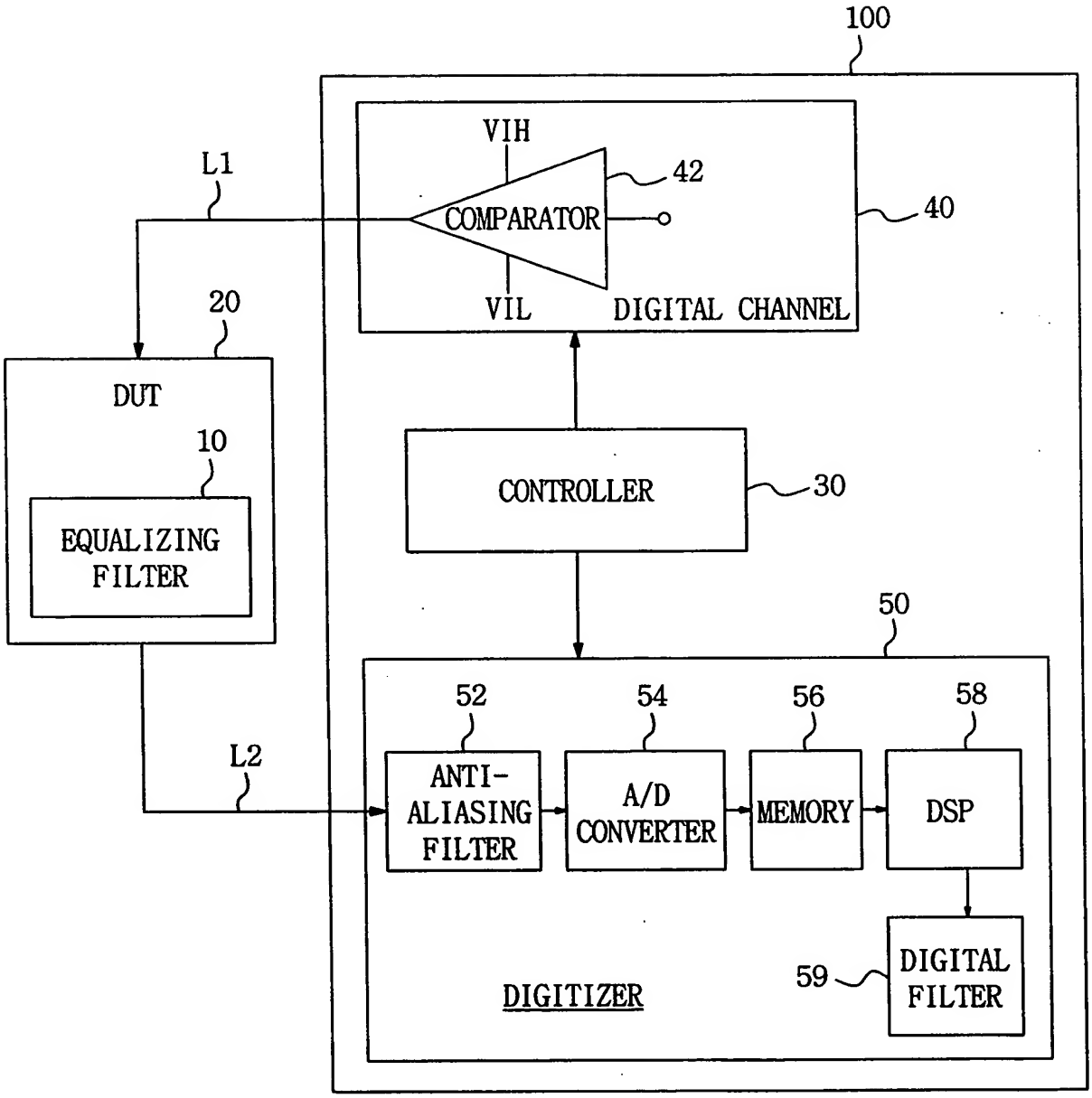

100
VIH
L1
42
COMPARATOR
40
VIL
DIGITAL CHANNEL
20
DUT
10
EQUALIZING FILTER
CONTROLLER
30
50
52
54
56
58
L2
ANTI-ALIASING FILTER
A/D CONVERTER
MEMORY
DSP
DIGITAL FILTER
59
DIGITIZER

FIG. 4

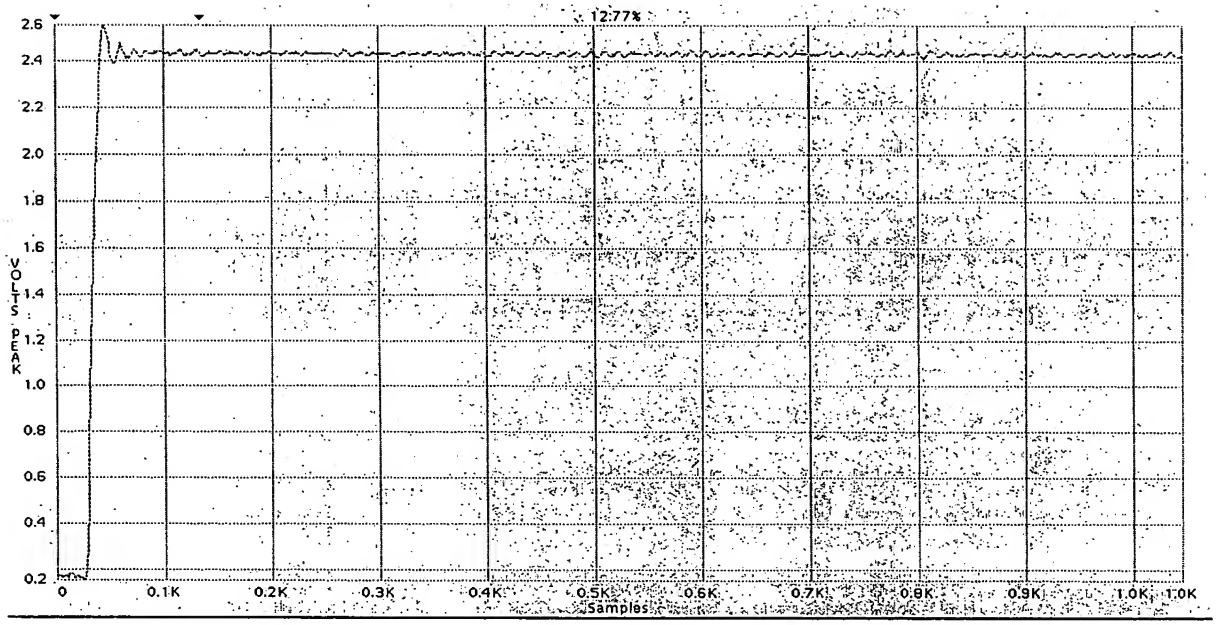

12.77%
VOLTS PEAK
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0
0.1K
0.2K
0.3K
0.4K
0.5K
0.6K
0.7K
0.8K
0.9K
1.0K
1.0K
samples

FIG. 5

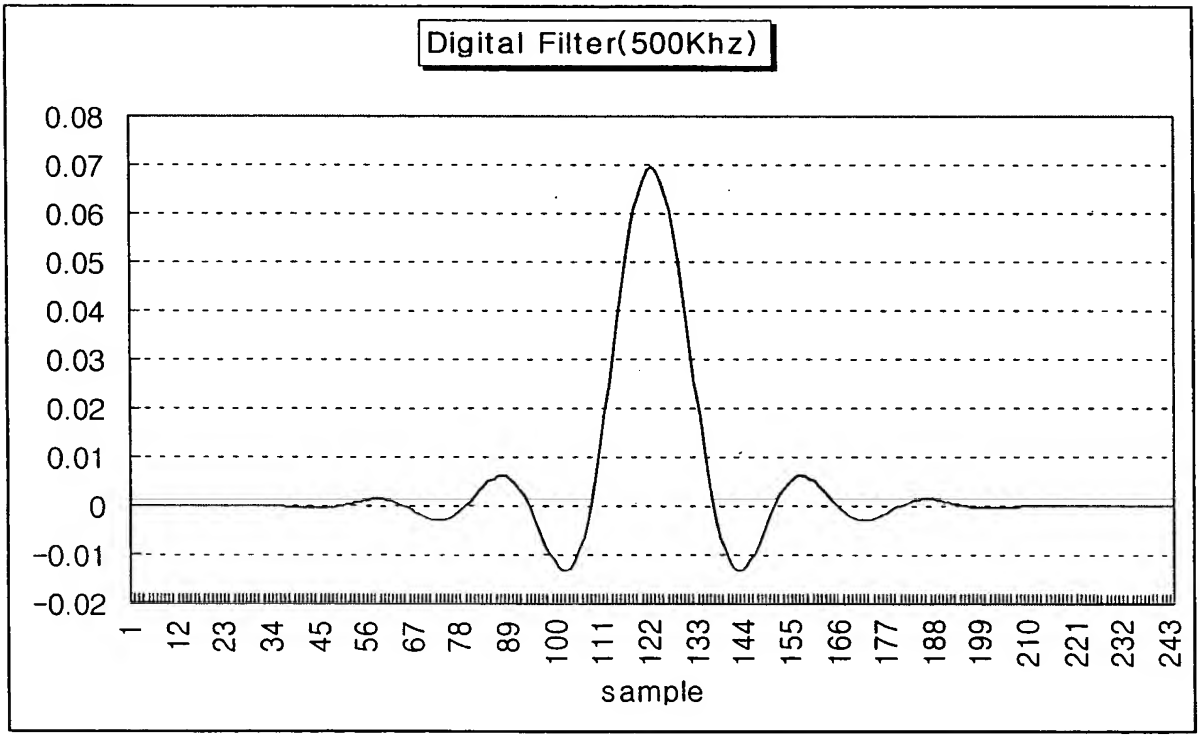
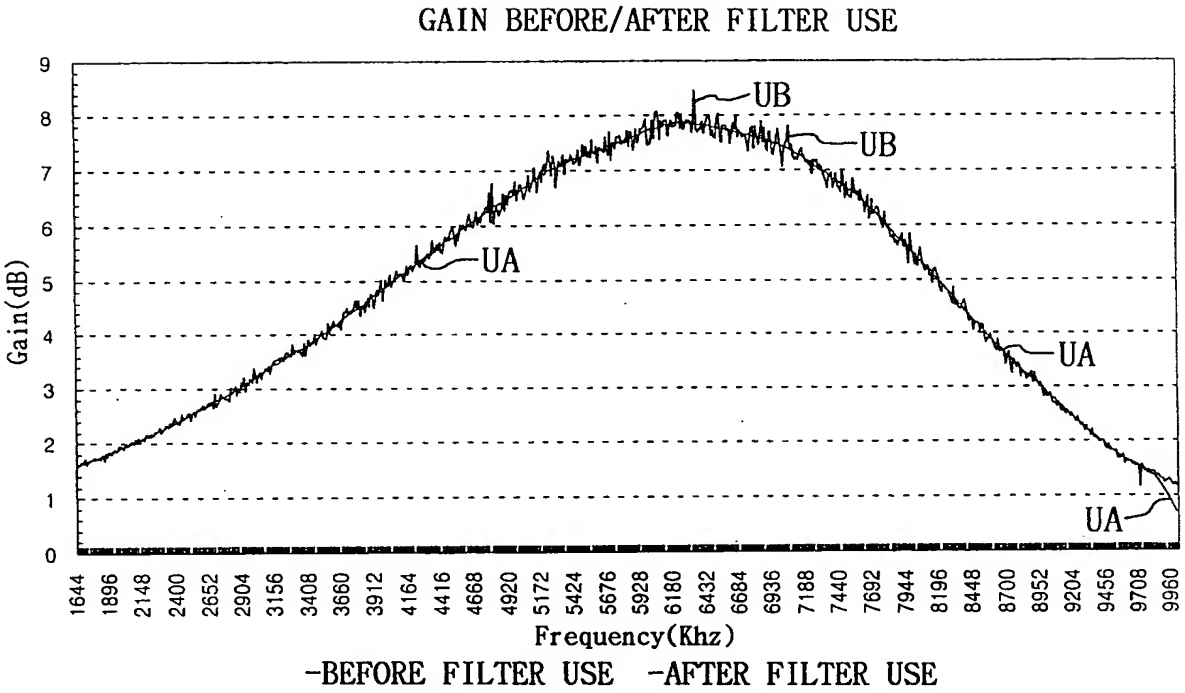

Digital Filter(500Khz)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
1
12
23
34
45
56
67
78
89
100
111
122
133
144
155
166
177
188
199
210
221
232
243
sample

FIG. 6


GAIN BEFORE/AFTER FILTER USE
Gain(dB)
9
8
7
6
5
4
3
2
1
0
UB
UB
UA
UA
UA
1644
1896
2148
2400
2652
2904
3156
3408
3660
3912
4164
4416
4668
4920
5172
5424
5676
5928
6180
6432
6684
6936
7188
7440
7692
7944
8196
8448
8700
8952
9204
9456
9708
9960
Frequency(Khz)
-BEFORE FILTER USE -AFTER FILTER USE